

NIOSH Personal Protective Technology Program

PPT Program Stakeholder Meeting
March 2-3, 2010



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Meeting Objectives

- **Provide a forum for stakeholders to interact with PPT Program researchers about ongoing research**
- **Provide targeted presentations and breakout sessions to identify user needs and facilitate PPT Program strategic planning**

NIOSH Program Portfolio

NORA / NIOSH Industry Sectors (N=8)	NIOSH Cross Sector Programs (N=24)
<ul style="list-style-type: none"> • Agriculture, forestry, and fishing • Construction • Healthcare and social assistance • Mining <ul style="list-style-type: none"> – Oil & Gas Extraction • Manufacturing • Services <ul style="list-style-type: none"> – Public Safety • Transportation, warehousing, and utilities • Wholesale and retail trade 	<ul style="list-style-type: none"> • Authoritative recommendations development • Cancer, reproductive, cardiovascular, neurological & renal diseases • Communications and information dissemination • Emergency preparedness/response • Global collaborations • Health hazard evaluation (HHE) • Hearing loss prevention • Immune, dermal and infectious diseases • Musculoskeletal disorders • Personal Protective Technology (PPT) • Radiation dose deconstruction • Respiratory diseases • Training grants • Traumatic injury • Work organization and stress-related disorders • Economics • Exposure assessment • Engineering controls • Work life initiative • Occupational health disparities • Small business assistance and outreach • Surveillance • Nanotechnology • Prevention through design

NIOSH PPT / NPPTL

Vision & Mission

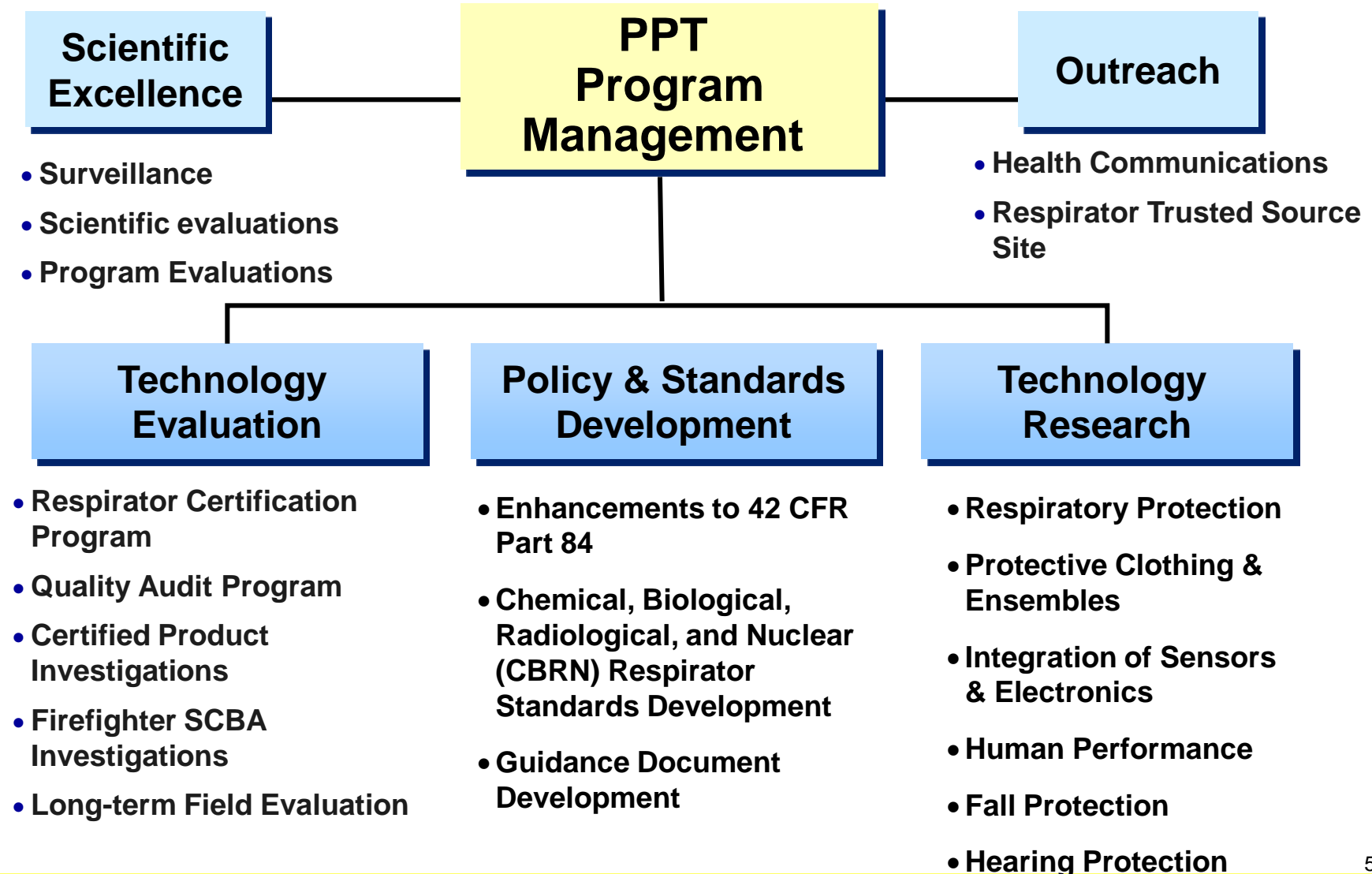
The **VISION** is to be the leading provider of quality, relevant, and timely PPT research, training, and evaluation.

The **MISSION** of the PPT program is to prevent work-related injury, illness and death by advancing the state of knowledge and application of personal protective technologies (PPT).



PPT in this context is defined as the technical methods, processes, techniques, tools, and materials that support the development and use of personal protective equipment worn by individuals to reduce the effects of their exposure to a hazard.

NPPTL & NIOSH PPE/PPT Program Activities



PPT Program



NIOSH PPT Program Relevance and Impact

Mine Escape Issues

- Mine Emergency Respirator Investigations
- New Technology Research
- Escape Respirator Research
- Escape Respirator Standards
- MSHA Collaboration
- Respirator Certification

CBRN Issues

- Respirator Standards Development
- CBRN PPT Research
- Respirator Certification
- NFPA/IAFF Collaboration
- TSWG IAA
- OSHA Collaboration



Nanotechnology Issues

- Filtration Research
- Protective Clothing Research
- Respirator Research
- Respirator Certification
- Workplace Guidance

Pandemic Issues

- N95 Respirator Research
- Standards (Total Inward Leakage)
- Respirator Certification
- FDA Collaboration
- National Academies Activities
- Pandemic Planning and Response



National Academies' PPT Program Evaluation

Jun 2008

PPT Scores

Recommendations

Emerging Issues

Impact = 4

The program has made some contributions to end outcomes or well-accepted intermediate outcomes.

Relevance = 4

The program's work is in priority subject areas, and NIOSH is engaged in appropriate transfer activities for completed projects or reported results.

1. Implement and Sustain a Comprehensive National PPT Program
2. Establish PPT Research Centers of Excellence and Increase Extramural PPT Research
3. Enhance the Respirator Certification Process
4. Increase Research on the Use and Usability of PPT
5. Assess PPT Use and Effectiveness in the Workplace Using a Life-Cycle Approach

Continue research in priority areas

New materials technology, including "no-fit" respirators

PPT ensembles and seamless integration of multiple PPT components

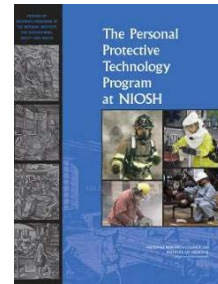
Usability, comfort, ergonomics, and human factors which determine whether or not the PPE is worn by the worker

Enhancing the culture of workplace safety through worker education, training, and understanding of hazardous exposure risk to health

Other emerging issues

Agenda

Tuesday, March 2nd



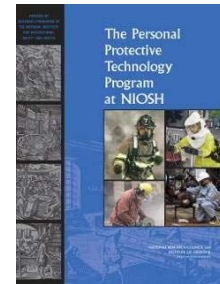
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|---------------|--|
| 7:15 – 8:00 | Registration – <i>Poster Room Open</i> |
| 8:00 – 8:15 | Welcome – <i>Regency A Ballroom</i> |
| 8:15 – 8:45 | Presentation: <i>Why Don't Workers Use PPE? – Regency A Ballroom</i> |
| 8:45 – 9:15 | Poster Session – <i>Regency B & C Ballrooms</i> |
| 9:15 – 10:15 | Presentation: <i>PPE Ensembles – Regency A Ballroom</i> |
| 10:15 – 10:45 | Presentation: <i>Pushing the limits – PPE Design Criteria – Regency A Ballroom</i> |
| 10:45 – 12:15 | Breakout Sessions 1, 2, 3
Session 1: <i>Pushing the Limits: Designing the Next Generation of N95 Filtering Facepiece Respirators (FFRs) – Lindberg Room</i>
Session 2: <i>PPE Selection, Interoperability and Compatibility Issues: Dysfunction or Co-Function – Wright A Room</i>
Session 3: <i>Protective Clothing Technologies, Materials and Performance Criteria – Wright B Room</i> |
| 12:15 – 1:15 | Luncheon Keynote Speaker - <i>Regency A Ballroom</i> |
| 1:15 – 2:00 | PPT – Past, Present, Future - <i>Regency A Ballroom</i> |
| 2:00 – 3:00 | Poster Session - <i>Regency B & C Ballrooms</i> |
| 3:00 – 4:30 | Breakout Sessions 1, 2, 3 (same as previous locations) |
| 4:30 – 5:00 | Summary of Day 1 Breakout Sessions – <i>Regency A Ballroom</i> |



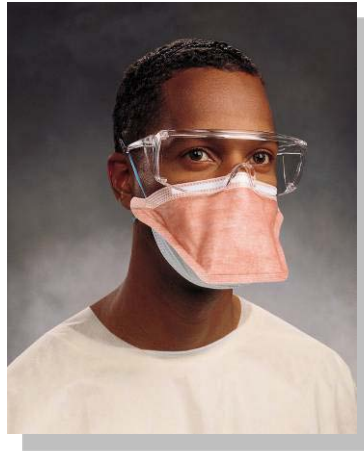
Agenda

Wednesday, March 3rd

- 7:15 – 8:15** **Poster Session – Regency B & C Ballrooms**
- 8:15 – 9:30** **Presentations: *Respirator and PPE Configuration Management Challenges*
and *NIOSH Information Resources* – Regency A Ballroom**
- 9:30 – 10:30** **Session 4: *Buyer Beware: Informing Stakeholders of Counterfeit
Respirators and Misrepresentations of NIOSH Approval* –
- Lindberg Room
- Wright A Room
- Wright B Room**
- 10:30 – 11:00** **Poster Session – Regency B & C Ballrooms**
- 11:00 – 12:00** **Summary of Day 2 Breakout Sessions – Regency A Ballroom
Poster Awards**



NIOSH PPT Program



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<http://www.cdc.gov/niosh/npptl/default.html>

Thank you